



Boilers

Safety and Health Conference 2015

What do we do?

The Office of the State Fire Marshal is dedicated to protecting the lives and property of the citizens of Kansas from the hazards of fire, explosion and hazardous materials. Our aim is to reduce the deaths, injuries, and property losses of Kansans through:

- Inspection
- Enforcement
- Regulation
- Investigation
- Hazardous material incident mitigation
- Public education

Authority

Kansas Statute gives us
authority under Kansas Fire
Prevention Code
and Boiler Statutes at

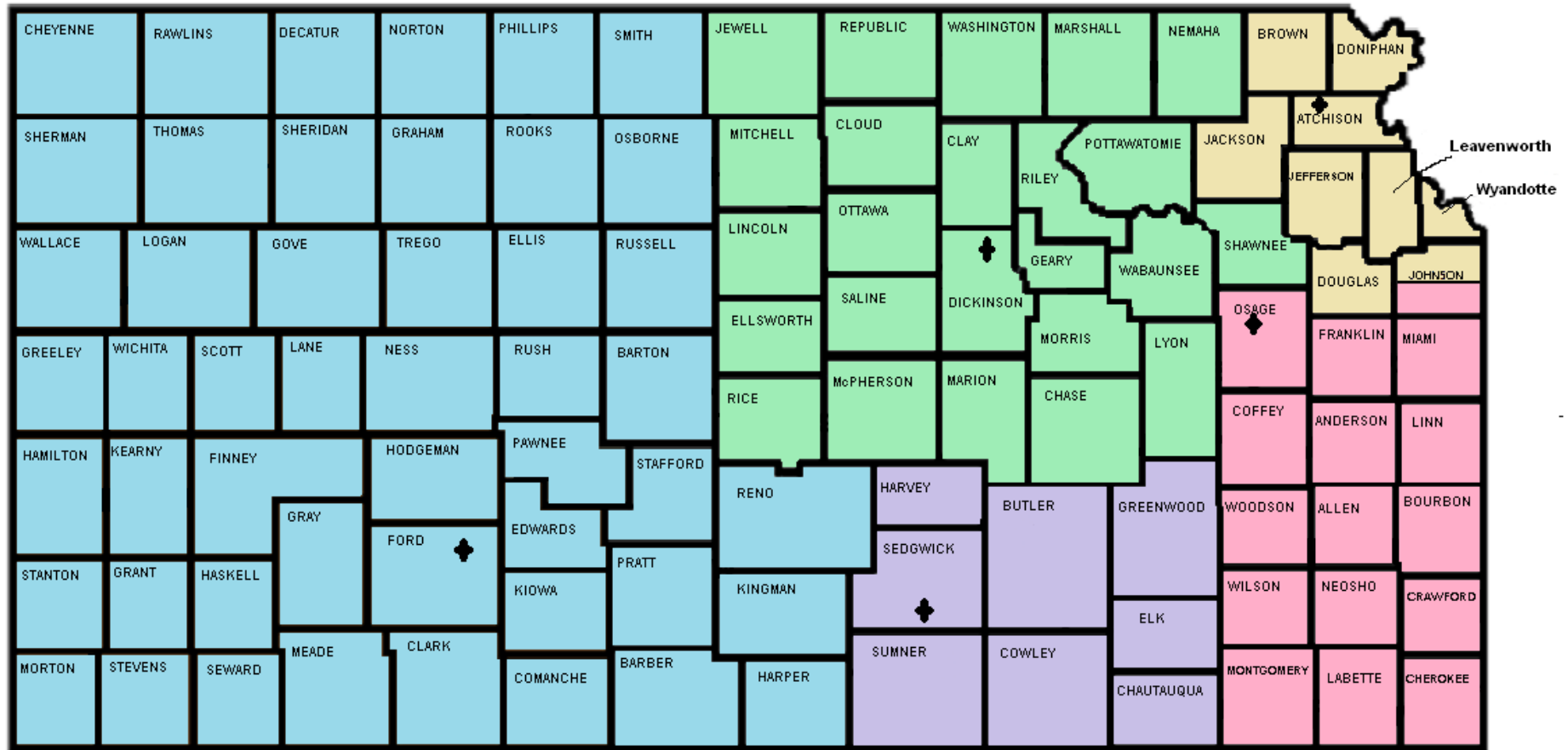
www.firemarshal.ks.gov

Boiler Division

- Came to us from Kansas Dept. of Labor in 2014
- Inspect approx. 6,000 units a year
- Work in connection with OSFM inspectors



Office of the State Fire Marshal - Boiler Inspector Territories



Rankin
 Sleeth
 Stimson
 Lutz
 Wilson

Partnership

OSFM Fire Inspectors
+ Boiler Inspectors

= Safe Buildings



Boiler Fires

| Month | 2010 | 2011 | 2012 | 2013 | 2014 |
|-------|------|------|------|------|------|
| Jan | 1 | 2 | 1 | 1 | 6 |
| Feb | 3 | 6 | 4 | 4 | 5 |
| Mar | 2 | | 2 | 1 | 1 |
| Apr | 1 | 2 | | 1 | 2 |
| May | 1 | 1 | 2 | 3 | 4 |
| Jun | | 1 | 1 | 2 | 3 |
| Jul | 4 | | 3 | | 1 |
| Aug | 2 | 2 | 1 | 1 | 3 |
| Sep | 2 | 5 | | 1 | 1 |
| Oct | 2 | | 4 | | 3 |
| Nov | 3 | 3 | 1 | 6 | 5 |
| Dec | 4 | 4 | 2 | 4 | 4 |

Boiler Fires

| Primary Ignition Factor | 2010 | 2011 | 2012 | 2013 | 2014 |
|--|------|------|------|------|------|
| Automatic control failure | | | 1 | | 1 |
| Electrical failure, malfunction, other | 1 | 1 | | 1 | 1 |
| Failure to clean | | | | | 1 |
| Flammable liquid or gas spilled | | | | | 1 |
| Heat source too close to combustibles. | | | | | 1 |
| Leak or break | | | 1 | 2 | 1 |
| Mechanical failure, malfunction, other | | 2 | | 1 | 3 |
| Misuse of material or product, other | 1 | | | | |
| None- no equip or person responsible | 1 | 3 | 3 | 3 | 4 |
| Other factor contributed to ignition | 1 | | | | 1 |
| Unspecified short-circuit arc | 1 | | 1 | | |
| Worn out | | | | 1 | |
| Unknown primary ignition factor | 20 | 20 | 15 | 16 | 24 |

Boiler Fires

| Year | Fires | Total Loss |
|-------------|-------|------------|
| 2010 | 25 | \$6,340 |
| 2011 | 26 | \$116,650 |
| 2012 | 21 | \$4,500 |
| 2013 | 24 | \$9,900 |
| 2014 | 38 | \$129,915 |
| Grand Total | 134 | \$267,305 |

Inspections

- Combustible materials
- Sprinkler heads unobstructed
- Visible exit signs
- Unobstructed path of egress
- Blocked exits
- Penetrations in walls/ceilings
- Emergency lighting
- Fire doors not being blocked or wedged
- Spontaneous ignition sources









empty bottles
of various sizes
125 mL - 1 L







References

- State of Kansas Boiler Safety Act
- ASME Boiler and Pressure Vessel Code
- K.S.A 44-913
- International Fire/Building Code 2006

Boiler Violations

- Handles Missing
- Fuel supply system at a safe point of discharge
- Manual shut off valves
- Set pressure too high





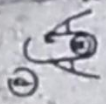


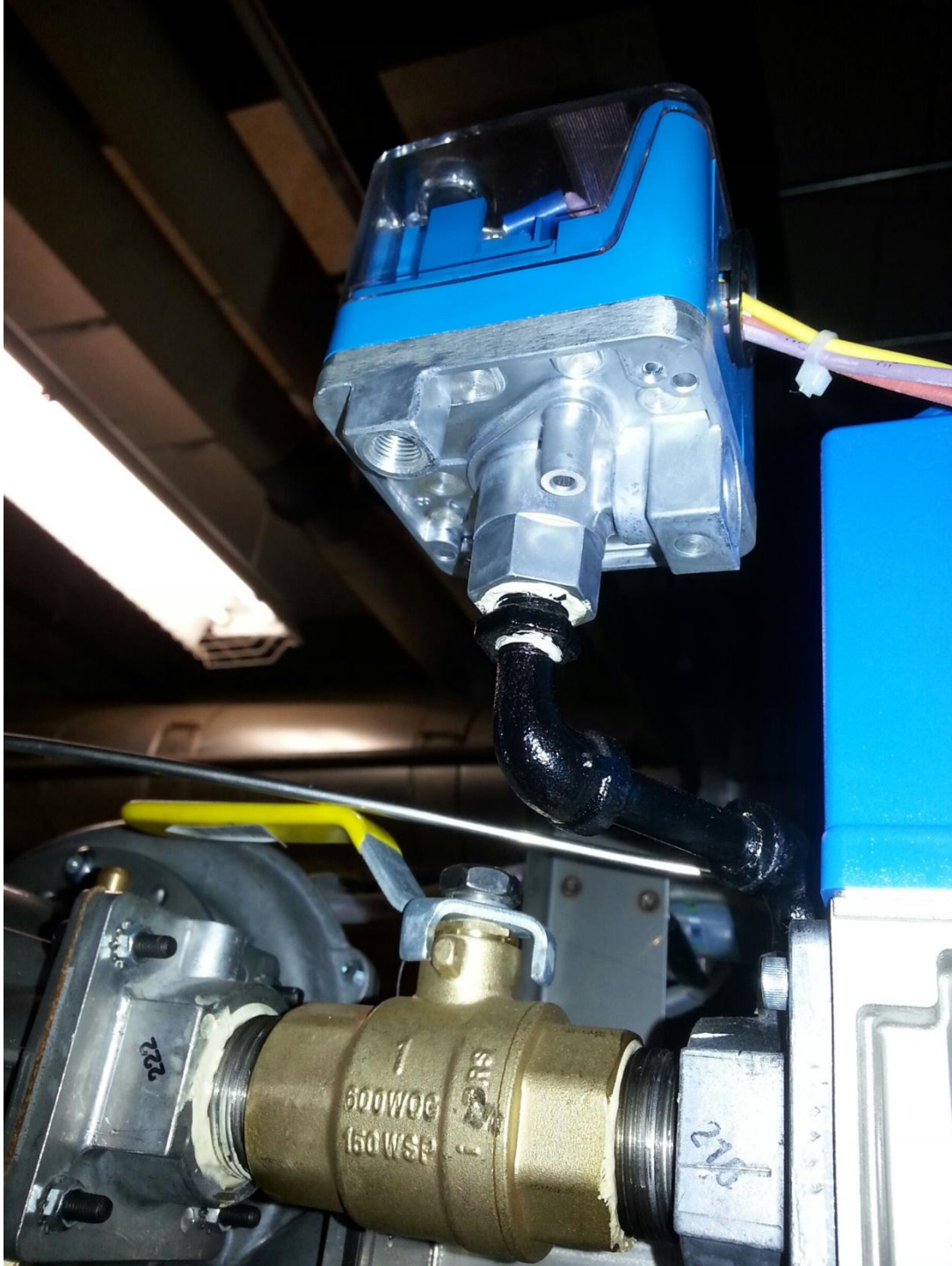
The vent piping size from this regulator should be 3/8", minimum.

MAXITROL

3/8 9737 85

RV20L
1/2 PSIG
P, 2.8"-5.2"







MODEL RVW61

| | |
|---|---------|
| 10- | 615 |
| SIZE | 1 |
| PSIG | 60 |
| WUHR | 2867000 |
|   | |
| BARG | |
| KCAL/HR | |
| DATE | |
| CE 0101 010101.01 | |
| EN 1221 1221.12 | |

INSTALLATION INSTRUCTIONS
MODEL RVW10, RVW30, RV552, RV532, & RVW60
(10 SERIES)

INSTALLATION MUST BE PERFORMED BY QUALIFIED SERVICE
PERSONNEL ONLY.
THE USER MUST READ THE INSTRUCTIONS CAREFULLY BEFORE
INSTALLING THE VALVE. THE VALVE MUST BE INSTALLED
IN THE DIRECTION OF THE ARROW ON THE VALVE BODY.
DO NOT EXCEED THE MAXIMUM WORKING PRESSURE AND
TEMPERATURE RATING OF THE VALVE.

BOILER CONTACT INFORMATION

Boiler Safety Unit
Office of the State Fire Marshal
800 SW Jackson, Suite 104
Topeka, KS 66612-1216
785-296-3401
boiler.inspection@ksfm.ks.gov

FORMS

[Boiler Inspection Request](#)
[Boiler Accident Report](#)
[Boiler & Pressure Vessel Inspector Application](#)

LINKS AND RESOURCES

[Boiler Online Payment Portal](#)
[Boiler FAQs](#)
[Kansas Boiler Act](#)

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BOILER INSPECTIONS

Boilers and pressure vessels that fall under the Kansas Boiler Safety Act shall be constructed to a recognized code of construction and be registered with the National Board of Boiler and Pressure Vessel Inspectors. Visit [The National Board of Boiler and Pressure Vessel Inspectors](#) for more information.



All new boiler and pressure vessel installations, second hand, relocated, repaired, and those moved from other jurisdictions must be reported to this office for inspection scheduling, by the installer, owner or operator, prior to being placed in operation.

All welded repairs and alterations on boilers or pressure vessels shall be performed by a firm that holds a National Board "R" Stamp. Repair forms are filed in this office.

Responsibilities for the Boiler Inspection & Safety Unit include:

- Oversee inspection, installation and repairs on all boilers and pressure vessels that are subject to the Kansas Boiler Safety Act, [K.S.A. 44-913 et seq](#)
- Maintain historical and current boiler safety records
- Issue operating certificates
- Perform the first inspection on all boilers and pressure vessels

Kansas Boiler Act - The Law, Rules and Regulations Governing Boiler Construction, Installation, Inspection, Maintenance and Repair of Boilers

Boiler Payment Portal

The Office of the Fire Marshal is now able to accept your Boiler Invoice Payment Online via Credit Card.

www.firemarshal.ks.gov

QUESTIONS?

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